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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,472	01/31/2002	Sara Lynn Leslie	SLA 1128	3534

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ROBERT VARITZ
4915 SE 33RD PLACE
PORTLAND, OR 97202

EXAMINER

HANG, VU B

ART UNIT	PAPER NUMBER
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2625

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/066,472	Applicant(s) LESLIE, SARA LYNN	
	Examiner Vu B. Hang	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 10 and 13-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1, 10 and 13-15 is/are rejected.
- 7) ☒ Claim(s) 16 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>03/12/2004, 01/31/2002</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

- This office action is responsive to the following communication: Amendment filed on 10/30/2006.
- The amendments to Claims 1 and 10 received on 10/30/2006 have been entered and made of record.
- Claims 1, 10 and 13-16 are currently pending in the application.

Response to Arguments

1. Applicant's arguments filed 10/30/2006, with respect to the rejection of **Claims 1 and 10** under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,614,454 B1) in view of Chiarabini et al. (US Patent 5,963,216), have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Martin et al. (US Patent 6,078,936).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 10 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Livingston (US Patent 6,614,454 B1) in view of Chiarabini et al. (US Patent 5,963,216), and in further view of Martin et al. (US Patent 6,078,936).

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4. Regarding **Claims 1 and 10**, Livingston discloses user method for setting a computer/printer system which includes a screen-display device (see Fig.3A and Col.1, Line 39-48), comprising:

displaying a pre-printing screen-display preview of a document, which has been sent by the computer to that printer for printing (see Fig.3A (68) and Col.2, Line 7-10);

enabling user selection of selectable printing look and format options relating aesthetic appearance (see Fig.3A, Col.2, Line 7-10 and Col.3, Line 60-67) and protocol (see Col.5, Line 31-33);

enabling user selection of one or more of such options to be included in the print preview request (see Fig.3A, Col.2, Line 7-10 and Col.3, Line 60-67);

generating a collection of print-control data which exactly defines how the document that has been sent to the printer will look when printed, and which will be employed by the printer to print the document (see Fig.1 (20), Col.2, Line 11-18 and Col.6, Line 8-16);

communicating the print-control data collection to the screen-display device (see Fig.1 (14,16,28,30) and Col.3, Line 10-14); and

on the basis of the communicating, displaying on the screen in the screen-display device an exact visual preview of the subject document affected by any selected user options (see Fig.3A and Col.2, Line 7-10).

Livingston fails to expressly disclose requesting a pre-printing screen display preview of a document from the computer connected printer; the user selection of printing look and format relating to spatial and positional page-appearance relationships; generating in the printer a collection of print-control data which exactly defines how the documents to be printed will look;

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and requesting and generating, via the printer's controller, the pre-printing screen-display preview of a document. Livingston, however, suggested a printer includes a display and the user interface is couples to both the computer and the printer (see Fig.1 (12,14,16) and Col.3, Line 29-33). Chiarabini further discloses the user request for print preview (see Fig.9 (240) and Col.2, Line 46-49); the user selection of printing look and format relating to spatial and positional page-appearance relationships (see Fig.7 (222), Fig.10 (246) and Col.6, Line 60-65); and the communication between the printer driver and the display driver to generate print-control data (see Fig.5 (203,204) and Col.2, Line 22-26). Martin discloses requesting and generating, via the printer's controller, the pre-printing screen-display preview of a document (see Fig.16 (302,306,308,322), Col.4, Line 30-35 and Col.17, Line 32-53).

Livingston, Chiarabini and Martin are combinable because they are from the same field of endeavor, namely print processing systems. At the time of the invention, it would have been obvious for one skilled in the art include to the user interface features that would allow for the user to select a printing options relating to spatial and positional page-appearance relationships, and for requesting a print preview of the documents to be printed. The motivation would be to enable the user to set the layout of the document to be printed and giving the user the choice of either reviewing the print preview of the document for necessary corrections or to simply skip the process if the user is confident with how the document will look when printed. It is further obvious to have the user interface at the printer for requesting the print preview and generating a collection of print-control data in the printer. The motivation would be to enable the user to view the print preview of the document to be printed at a multifunction peripheral device and allowing for the user to retrieve the previously stored print control data for customized printings.

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5. Regarding **Claim 13**, Livingston and Chiarabini disclose the method of Claims 10 and 12 but fail to expressly disclose the user requesting of storage capture of controller generated data in a data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. Livingston, however, further discloses the saving/storing and retrieving of the controller-generated data (see Fig.1 (20) and Col.2, Line 11-18).

At the time of the invention, it would have been obvious for one skilled in the art to include the user requesting of storage capture of controller generated data in a data storage device, as well as subsequent user requesting of storage retrieval of any such stored controller generated data. The motivation for doing so would be to enable the user to select from among a plurality of stored controller generated data to carry out the printing process. This would benefit a user who prefers reusing a certain set of controller-generated data for the printing process.

6. Regarding **Claim 14**, Martin further discloses the computer structure and the screen-display device together form portions of an integrated computer (see Fig.16 (302,306,308,322), Col.4, Line 30-35).

7. Regarding **Claim 15**, Martin further discloses the screen-display device and the printer together form portions of an integrated computer (see Fig.16 (302,306,308,322), Col.4, Line 30-35).

Allowable Subject Matter

8. Claim 16 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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9. Regarding **Claim 16**, the following is a statement of reasons for the indication of allowable subject matter:

The invention is directed to requesting, generating and displaying a pre-printing screen-display preview of a document via a printer's controller. The closest prior art, cited Livingston (US Patent 6,614,454 B1), Chiarabini et al. (US Patent 5,963,216), and Martin et al. (US Patent 6,078,936), teaches system for requesting and generating a pre-printing screen-display preview of a document via a printer's controller, but do not disclose instructing the printer to handle related document data at a selected level of data compression or bit depth, and asking that all or some selected portion of a requested print-preview display be presented in thumbnail fashion. Specifically, the cited prior art fail to disclose the claim limitations of (a) asking a document rendition in a selected one of different color format, or in a bi-tonal format; (b) instructing the printer to handle related document data at a selected level of data compression or bit depth, (c) instructing the printer to handle related document data at a selected level of resolution, and (d) asking that all or some selected portion of a requested print-preview display be presented in thumbnail fashion.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu B. Hang whose telephone number is (571) 272-0582. The examiner can normally be reached on Monday-Friday, 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu Hang

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Assistant Examiner

Va Heng


TWYLER LAMB
SUPERVISORY PATENT EXAMINER